

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Road and Drains at Palanahalli
Surrounding area in Ward No. 05 Byatarayanapura Sub Division

		Estimate Cost Rs.						2000000.00	
SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.2/ PWD SR 2016-17	Cum							
	For RCC Drain								
	Vinayakanagara Golden Park Road		2	110.00	0.90	0.75	148.50		
	Culverts		3	6.50	1.95	1.10	41.83		
							190.33	86.92	16543.00
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	86.92							
2	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 with OPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	Cum							
	RCC Drain								
	Narayanaswamy House Road		2	110.00	0.90	0.15	29.70		
	Culverts		3	6.50	1.95	0.15	5.70		
							35.40	5159.02	182649.00
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	5159.02							
3	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	Culverts		3X2	6.50	0.60	0.45	10.53		
							10.53	4438.22	46734.00
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	4438.22							

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SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	Sqm							
	Culverts		3X2	6.50	0.50	0.45	8.78		
							8.78	5305.30	46554.00
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	5305.30							
5	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	Sqm							
	Narayanaswamy House Road		2X2	110.00	0.60		264.00		
	Culverts		3	6.50	0.60		11.70		
	For Sides		3X2	6.50	0.23		8.97		
			3X2	1.65	0.23		2.28		
							286.95	271.36	77866.00
	Basic Rate	256.00							
	Area Weightage @ 6%	15.36							
	Total	271.36							
6	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	cum							
	Culverts		3X2	6.50	0.50	0.10	1.95		
	Vent Bed		3	6.50	0.60	0.10	1.17		
							3.12	5598.92	17469.00
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	5598.92							
7	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
	Culverts		3X2	6.50		0.50	19.50		
							19.50	102.82	2005.00
	Basic Rate	97.00							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	5.82							
	Total	102.82							
8	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
	Narayanaswamy House Road		2	110.00	0.90	0.10	19.80		
	Side Walls		2X2	110.00	0.15	0.60	39.60		
	Culverts		3	6.50	1.65	0.23	7.40		
							66.80	6371.66	425628.00
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	6371.66							
9	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17	Qtl							
	0.58 Ton/Cum		0.058	66.80			3.87	59413.00	230191.00
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	59413.00							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 154/ Item No. 20.18/ PWD SR 2016-17	Cum							
	Vinayakanagara Golden Park Road		1	110.00	6.50	0.20	143.00		
	Cross Road		1	38.00	6.50	0.20	49.40		
							192.40	1768.08	340179.00
	Basic Rate	1668.00	✓						
	Area Weightage @ 6%	100.08	✓						
	Total	1768.08	✓						
11	KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications Do- Medium Porosity MORTH chapter 5, No. 157/ Item No. 21.5/ PWD SR 2016-17	Sqm							
	Vinayakanagara Golden Park Road		1	110.00	6.50		715.00		
	Cross Road		1	38.00	6.50		247.00		
							962.00	59.36	57104.00
	Basic Rate	56.00	✓						
	Area Weightage @ 6%	3.36	✓						
	Total	59.36	✓						
12	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 159/ Item No. 21.20.1/ PWD SR 2016-17	Cum							
	Vinayakanagara Golden Park Road		1	110.00	6.50	0.025	17.88		
	Cross Road		1	38.00	6.50	0.025	6.18		
							24.05	6429.96	154641.00

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	6066.00							
	Area Weightage @ 6%	363.96							
	Total	6429.96							
13	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED)	Sqm							
	Vinayakanagara Golden Park Road		2	110.00	0.90		198.00		
							198.00	1856.67	367621.00
	Data Rate	1856.67							
14	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means including loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
							Qty. Vide Item No. 1	190.33	
							190.33	73.36	13962.00
	Basic Rate Lead Charges Upto 2.00 Kms	5.36							
	PWD SR 2016-17 (P.118/I.17.1) For loading	68.00							
	Total	73.36							
							Grand Total		1979146.00
15	For 1% Third Party Inspection Charges								19791.00
16	Miscellaneous Charges	L/S							1063.00
									2000000.00

Rupees Twenty Lakh(s) Only

Certificate:

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD SR of 2016-17
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under B.B.M.P. limits.

[Signature]
Assistant Engineer
Ward No. 05(Jakkur)
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[Signature]
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

[Signature]
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
B.B.M.P. Bangalore

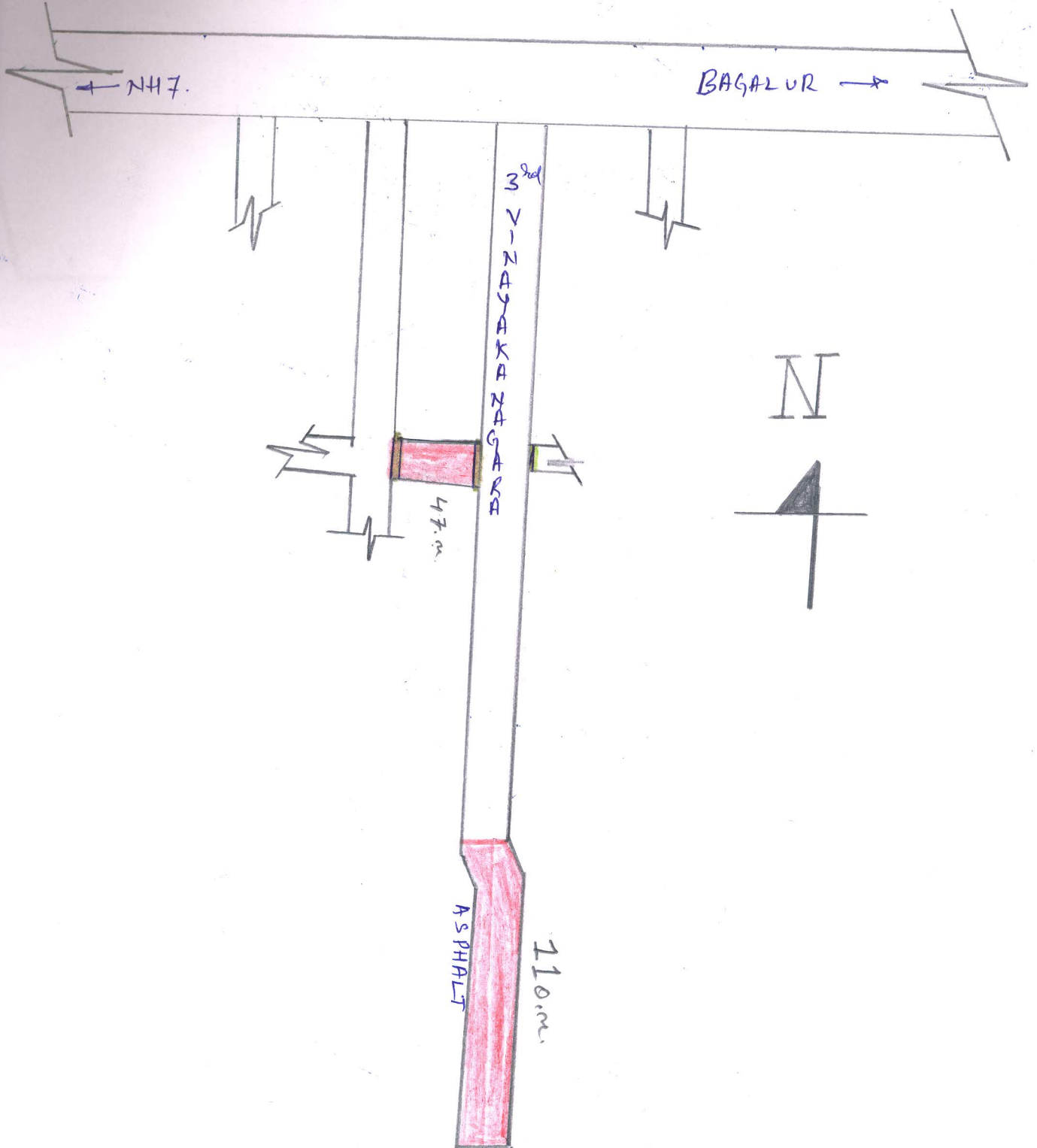
Administrative Approval
Accorded For *20.00 lakhs*
Head of A/C *P-1771*
CER NO *128* Dt. *12.01.17*

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GE (YNK)

TECHNICAL SANCTION	
Accorded For	<i>Twenty lakhs only</i>
Head of A/C	<i>P-1771</i>
Div. Ref.	<i>112/16-17</i> Dt. <i>12/01/17</i>
<i>[Signature]</i> AE	<i>[Signature]</i> EE(BTP) <i>12/01</i>

Name of Work: Improvements to Road and Drains at
 palanahalli surrounding area in Ward No. 5
 Byatarayanapura Sub Division.

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PALANAHALLY SY No.

gkhandrup
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಬಿ.ಬಿ.ಎಂ.ಪಿ.
 Assistant Executive Engineer
 Byatarayanapura Sub Division
 B.B.M.P. Bangalore